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Approved for use through 09/30/2000. OMB 0651-0032  
Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))

Attorney Docket No. 6017.US.D1

First Inventor or Application Identifier Clark A. Briggs

Title See 1 in Addendum

Express Mail Label No. EL507385162US

**APPLICATION ELEMENTS**  
See MPEP chapter 600 concerning utility patent application contents.

**ADDRESS TO:** Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

1. ☒ \* Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2. ☒ Specification [Total Pages 47] 1  
(preferred arrangement set forth below)
  - Descriptive title of the Invention
  - Cross References to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to Microfiche Appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
3. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 10] 1
4. Oath or Declaration [Total Pages 4] 1
  - a. ☐ Newly executed (original or copy)
  - b. ☒ Copy from a prior application (37 C.F.R. § 1.63(d))  
(for continuation/divisional with Box 16 completed)
    - i. ☐ DELETION OF INVENTOR(S)  
Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).

5. ☐ Microfiche Computer Program (Appendix)
6. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)
  - a. ☐ Computer Readable Copy
  - b. ☒ Paper Copy (identical to computer copy)
  - c. ☒ Statement verifying identity of above copies

## ACCOMPANYING APPLICATION PARTS

7. ☐ Assignment Papers (cover sheet & document(s))
8. ☐ 37 C.F.R. § 3.73(b) Statement of Power of Attorney  
(when there is an assignee)
9. ☐ English Translation Document (if applicable)
10. ☐ Information Disclosure Statement (IDS)/PTO-1449 [Copies of IDS Citations]
11. ☒ Preliminary Amendment
12. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
13. ☐ \* Small Entity Statement(s) [Statement filed in prior application Status still proper and desired (PTO/SB/09-12)]
14. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
15. ☒ Other: See 2 in Addendum

**NOTE FOR ITEMS 1 & 13 IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).**

16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:

☐ Continuation ☒ Divisional ☐ Continuation-in-part (CIP) of prior application No. 08/771,737  
Prior application information: Examiner Gucker, S. Group / Art Unit: 1646

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 17. CORRESPONDENCE ADDRESS

☐ Customer Number or Bar Code Label (Insert Customer No. or Attach bar code label here) or ☒ Correspondence address below

Name	Mimi C. Goller				
	Abbott Laboratories				
Address	Dept. 377, AP6D-2				
	100 Abbott Park Road				
City	Abbott Park	State	IL	Zip Code	60064-6050
Country		Telephone	US-847-935-7550	Fax	US-847-(38)-2623

Name (Print/Type)	Mimi C. Goller	Registration No. (Attorney/Agent)	39,046
Signature	[Signature]		Date 9/17/01

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

Attachment to PTO/SB/05 (4/98) Utility Patent Application  
Transmittal

1. Variant Human Alpha7 Acetylcholine Receptor Subunit, and Methods of Production and Uses Thereof
2. - Request to Use Computer Readable Form from a Priority Application

PTO/SB/05 (4/98)

# FEE TRANSMITTAL

## for FY 2000

Patent fees are subject to annual revision  
Small Entity payments must be supported by a small entity statement,  
otherwise large entity fees must be paid See Forms PTO/SB/09-12.  
See 37 C.F.R. §§ 1.27 and 1.28

**TOTAL AMOUNT OF PAYMENT** (\$840.00)

### Complete if Known

Application Number \_\_\_\_\_  
Filing Date **September 18, 2001**  
First Named Inventor **Clark A. Briggs**  
Examiner Name **S. Gucker**  
Group / Art Unit **1646**  
Attorney Docket No. **6017.US.D1**

### METHOD OF PAYMENT (check one)

1. ☒ The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit Account Number **01-0025**

Deposit Account Name **Abbott Laboratories**

- ☒ Charge Any Additional Fee Required  
Under 37 CFR §§ 1.16 and 1.17

2. ☐ Payment Enclosed:  
☐ Check ☐ Money Order ☐ Other

### FEE CALCULATION

#### 1. BASIC FILING FEE

Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid
101 690	201 345	Utility filing fee	710.00
106 310	206 155	Design filing fee	
107 480	207 240	Plant filing fee	
108 690	208 345	Reissue filing fee	
114 150	214 75	Provisional filing fee	

**SUBTOTAL (1)** (\$ 710.00)

#### 2. EXTRA CLAIM FEES

Total Claims	Extra Claims	Fee from below	Fee Paid
Independent Claims	-20** = 0	X 18	= 0
Multiple Dependent	-3** = 0	X 80	= 0
			= 0

\*\*or number previously paid, if greater; For Reissues, see below

Large Entity Fee Code	Small Entity Fee Code	Fee Description
103 18	203 9	Claims in excess of 20
102 78	202 39	Independent claims in excess of 3
104 260	204 130	Multiple dependent claim, if not paid
109 78	209 39	** Reissue independent claims over original patent
110 18	210 9	** Reissue claims in excess of 20 and over original patent

**SUBTOTAL (2)** (\$ 0.00)

### FEE CALCULATION (continued)

#### 3. ADDITIONAL FEES

Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid
105 130	205 65	Surcharge - late filing fee or oath	0.00
127 50	227 25	Surcharge - late provisional filing fee or cover sheet	0.00
139 130	139 130	Non-English specification	0.00
147 2,520	147 2,520	For filing a request for reexamination	0.00
112 920*	112 920*	Requesting publication of SIR prior to Examiner action	0.00
113 1,840*	113 1,840*	Requesting publication of SIR after Examiner action	0.00
115 110	215 55	Extension for reply within first month	0.00
116 380	216 190	Extension for reply within second month	0.00
117 870	217 435	Extension for reply within third month	0.00
118 1,360	218 680	Extension for reply within fourth month	0.00
128 1,850	228 925	Extension for reply within fifth month	0.00
119 300	219 150	Notice of Appeal	0.00
120 300	220 150	Filing a brief in support of an appeal	0.00
121 260	221 130	Request for oral hearing	0.00
138 1,510	138 1,510	Petition to institute a public use proceeding	0.00
140 110	240 55	Petition to revive - unavoidable	0.00
141 1,210	241 605	Petition to revive - unintentional	0.00
142 1,210	242 605	Utility issue fee (or reissue)	0.00
143 430	243 215	Design issue fee	0.00
144 580	244 290	Plant issue fee	0.00
122 130	122 130	Petitions to the Commissioner	130.00
123 50	123 50	Petitions related to provisional applications	0.00
126 240	126 240	Submission of Information Disclosure Stmt	0.00
581 40	581 40	Recording each patent assignment per property (times number of properties)	0.00
146 690	246 345	Filing a submission after final rejection (37 CFR § 1.129(a))	0.00
149 690	249 345	For each additional invention to be examined (37 CFR § 1.129(b))	0.00
		Other fee (specify) _____	0.00
		Other fee (specify) _____	0.00

\* Reduced by Basic Filing Fee Paid

**SUBTOTAL (3)** (\$ 130.00)

### SUBMITTED BY

Name (Print/Type) **Mimi C. Goller** Registration No (Attorney/Agent) **39,046** Telephone **935-7550**  
Signature *Mimi C. Goller* Date **9/17/01**

### WARNING:

Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: C. A. Briggs, *et al.*Express Mail Mailing Label Number  
EL5073851621US

Serial No.:

Filed: September 18, 2001

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service as Express Mail Post Office to Addressee Service under 37 C.F.R. 1.10 on the date shown below with sufficient postage addressed to the:

For: Variant Human Alpha7 Acetylcholine  
Receptor Subunit, and Methods of Production  
and Uses Thereof

Examiner: S. Gucker


Commissioner of Patents & Trademarks  
Box: Patent Application  
Washington, D.C. 20231, on:

Group Art Unit: 1646

Case No.: 6017.US.O1

Date of Deposit: September 18, 2001


Date: September 17, 2001

  
Wanda E. Smith Date**STATEMENT TO SUPPORT FILINGS AND SUBMISSIONS IN ACCORDANCE  
WITH 37 C.F.R. §§1.821 THROUGH 1.825**Assistant Commissioner for Patents  
Washington, D. C. 20231

Dear Sir:

The undersigned, being the attorney of record of the above-identified patent application, submits the following statement regarding the Sequence Listing in paper and computer readable form:

I hereby state that the content of the paper copy of the Sequence Listing submitted herewith, in accordance with 37 C.F.R. §1.821(c) and (e), respectively, is the same as the computer readable form which was submitted in the parent application on December 20, 1996, that the paper and computer readable form copies contain no sequence information that would constitute new matter beyond the original submissions.

Respectfully submitted,  
C. A. Briggs, *et al.*,ABBOTT LABORATORIES  
D-0377/AP6D-2  
100 Abbott Park Road  
Abbott Park, Illinois 60064-6050  
Telephone: (847) 935-7550  
Facsimile: (847) 938-2623  
Mimi C. Goller  
Registration No. 39,046  
Attorney for Applicants

0964936 09100 "9645660

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: C. A. Briggs, *et al.*Express Mail Mailing Label Number  
EL5073851621US

Serial No.:

Filed: September 18, 2001

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service as Express Mail Post Office to Addressee Service under 37 C.F.R. 1.10 on the date shown below with sufficient postage addressed to the:

For: Variant Human Alpha7 Acetylcholine  
Receptor Subunit, and Methods of Production  
and Uses Thereof

Examiner: S. Gucker

Commissioner of Patents & Trademarks  
Box: Patent Application  
Washington, D.C. 20231, on:

Group Art Unit: 1646

Case No.: 6017.US.O1

Date of Deposit: September 18, 2001

Date: September 17, 2001

Wanda E. Smith 9/18/01  
Wanda E. Smith Date**REQUEST TO USE COMPUTER READABLE FORM**  
**FROM A PRIORITY APPLICATION**Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

The computer readable form in this application is identical with that submitted in the parent application, U.S. Serial No. 08/771,737, the specification of which was filed on December 20, 1996. In accordance with 37 C.F.R. 1.821(e), Applicants request that the same computer readable form, which was submitted in the parent application on December 20, 1996, be used as the computer readable form for the instant application. Applicants understand that the Patent and Trademark Office will make the necessary change in application number and filing date for the computer readable form that will be used for the instant application. A paper copy of the Sequence Listing is included in the specification. A statement to support the filings and submissions in accordance with 37 C.F.R. §1.821-1.825 is also included.

Respectfully submitted,  
C. A. Briggs, *et al.*,

ABBOTT LABORATORIES  
D-0377/AP6D-2  
100 Abbott Park Road  
Abbott Park, Illinois 60064-6050  
Telephone: (847) 935-7550  
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Mimi C. Goller  
Mimi C. Goller  
Registration No. 39,046  
Attorney for Applicants

0954936 091801

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: C. A. Briggs, *et al.*

Serial No.:

Group No.:

Filed: September 18, 2001

Examiner: S. Gucker

For: **Variant Human Alpha7 Acetylcholine Receptor Subunit, and Methods of Production and Uses Thereof**

**Box Patent Application**

**Assistant Commissioner for Patents**

**Washington, D.C. 20231**

EXPRESS MAIL CERTIFICATE

"Express Mail" label number EL507385162US

Date of Deposit: September 18, 2001

I hereby state that the following *attached* paper or fee

Utility Patent Application Transmittal – 2 pgs.

Fee Transmittal, - 1 pg. (in duplicate)

Preliminary Amendment – 2 pgs.

Specification (39 pages); Claims (7 pages); Abstract (1 page); **Total: 47 pages**

Paper copy of Sequence Listing (5 pgs.)

Drawings – 10 pgs.

Executed Declaration and Power of Attorney (previously submitted) - 4 pages

Statement to Support Filings and Submission in Accordance with 37 CFR 1.821 through 1.825– 1 pg.

Request to Use Computer Readable Form from a Priority Application– 1 pg.

Two Return-Receipt Postcards

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10, on the date indicated above and is addressed to the Box Patent Application, Assistant Commissioner for Patents, Washington, D.C. 20231.

Wanda E. Smith



Signature of person mailing paper or fee

(Express Mail Certificate)

POSTED SEP 18 2001